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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,620	0/657,620 09/08/2003		James R. Davis	Aerotech 4.1-5	1055
21036	759	00 02/23/2005		EXAMINER	
		MOYNE, P.C.	JOYCE, HAROLD		
2190 COMMONS PARKWAY OKEMOS, MI 48864				ART UNIT	PAPER NUMBER
	-,			3749	
				DATE MAILED: 02/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/657,620	DAVIS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Harold Joyce	3749					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 20 De	ecember 2004.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowar closed in accordance with the practice under E							
Disposition of Claims							
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
∑ Claim(s) <u>21 and 22</u> is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> is/are rejected.	Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine							
$\bigcirc$ The drawing(s) filed on <u>20 December 2004</u> is/are: a) $\bigcirc$ accepted or b) $\bigcirc$ objected to by the Examiner.							
Applicant may not request that any objection to the	* ' '						
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>							
							2. Certified copies of the priority documents
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •	. al					
* See the attached detailed Office action for a list	or the certified copies not receive	eu.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Do	ate Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the German patent in view of Bohanon, Sr. The German patent discloses the claimed the claimed invention except for the motor being mounted in the center cavity of the housing spaced between the inlet. Bohanon, Sr. teaches that it is known to provide a drive motor spaced between the inlet as set forth at column 3, lines 55-61. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide for the motor of the German patent to be mounted in the housing spaced between the inlet, as taught by Bohanon, Sr. in order to "provide for a higher RPM motor drive with reduced rotational speed of the fan itself for greater efficiency with less fan speed and thereby less noise", column 3, lines 62-65. Further, the German patent discloses the claimed invention except for the inlet of the housing having a square cross-section. Bohanon, Sr. teaches that it is known to provide a fan enclosure with a square inlet as set forth at column 3, line 66 to column 4, line 19. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the fan of the German patent with a square inlet, as taught by Bohanon, Sr. for design reasons. As to the claimed bracket, Official Notice is taken that this type of

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patent with the same would be obvious. As to the width of the blades adjacent the first end being less than the width adjacent the second end, it would have been an obvious matter of design choice for the fan blades of the German patent to have a width adjacent the first end to be less than the width adjacent the second end particularly in absence of a statement regarding criticality or new and unexpected results.

## Claim Rejections - 35 USC § 112

Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1, lines 11 and 12, "the second end ... the motor" is misdescriptive because the motor is mounted between the inlet and the center portion. In lines 16 and 17, "and mounted at ... center hub" is misdescriptive/directed to new matter since there is no disclosure therefor. In line 21, "blade" inherently should be changed to -- hub --. In claim 2, there are no antecedent bases for "the first end" and "the second end" as they now apply to the blade. Claim 4, is misdescriptive and/or incomplete. Claims 5 and 6 is indefinite because it is not understood as to the meaning of "a machete-like tip". Note, the definition of machete noun A large, heavy knife with a broad blade, used as a weapon and an implement for cutting vegetation. 1

<sup>&</sup>lt;sup>1</sup>The American Heritage® Dictionary of the English Language, Third Edition copyright © 1992 by Houghton Mifflin Company. Electronic version licensed from INSO Corporation; further reproduction and distribution restricted in accordance with the Copyright Law of the United States. All rights reserved.

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3. Claim 6 is confusing/cannot be understood. In claim 8, there is not basis for "a diameter of a path of the blades", lines 4 and 5. In claim 15, lines 2-4, "grooves adjacent the ... the housing" is confusing/meaningless/incomplete and likewise for claim 16, lines 3 and 4.

## Allowable Subject Matter

- 4. Claims 15-19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- Claims 21 and 22 are allowed.

# **Drawings**

6. The drawings were received on December 20, 2004. These drawings are approved.

### Response to Arguments

7. Applicant's arguments filed December 20, 2004 have been fully considered but they are not persuasive. Contrary to applicant's remarks on page 16, the nose-shaped portion 10 is shown to be spaced from the hub 8 or 9.

#### **Conclusion**

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harold Joyce whose telephone number is (571) 272-4876. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on (571) 272-4877. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harold Joyce
Primary Examiner
Art Unit 3749

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